

## WHAT IS CLAIMED IS:

1. A novel fingernail polish mixing system, comprising:  
an *elastomeric mixing platform* sub-assembly, comprising a platform suspended across a plane by two or more elastic bands, a source of vibration or gyration and a counter dampening device.
2. A novel fingernail polish mixing system wherein the *work piece holding device* is comprised of a cylindrical foam plug with a cut out cavity the shape of which is optimal for receiving and holding common fingernail polish bottles securely during mixing by virtue of elastic counter reaction to said bottle insertion.
3. The fingernail polish mixing system of claim 1, wherein a motor with a counter weighted rotational shaft is used as a source of initial vibration or gyration to initiate mixing action.
4. The fingernail polish mixing system of claim 1, wherein the *work piece holding device* is comprised of a cylindrical foam plug with a cut out cavity the shape of which is optimal for receiving and holding common fingernail polish bottles securely during mixing by virtue of elastic counter reaction to said bottle insertion.

5. The fingernail polish mixing system of claim 2, wherein a motor with counter weighted rotational shaft is used as a source of initial vibration or gyration to perform the mixing action.

6. The fingernail polish mixing system of claim 4, wherein a motor with counter weighted rotational shaft is used as a source of initial vibration or gyration to perform the mixing.

7. The fingernail polish mixing system of claim 2, wherein the *work piece holding device* serves as a physical travel limit to the gyration of the *mixing platform* thereby limiting the formation of undesirable air bubbles within the solution being mixed.

8. The fingernail polish mixing system of claim 6, wherein the motor used is a permanent magnet DC motor.

9. The fingernail polish mixing system of claim 6, wherein the mixing cycle is automatically triggered by the insertion of the bottle of fingernail polish.

10. The fingernail polish mixing system of claim 6, wherein the mixing cycle is automatically triggered by the insertion of the bottle of fingernail polish by means of a permanent magnet and a magnetic reed switch.

11. The fingernail polish mixing system of claim 6, wherein the mixing cycle may be triggered by a single hand during and coincidental to the insertion of a bottle of fingernail polish.

12. The fingernail polish mixing system of claim 9, wherein the mixing gyration is such that it limits the formation of air bubbles within the nail polish or solution being mixed.

13. The fingernail polish mixing system of claim 10, wherein the mixing gyration is such that it limits the formation of air bubbles within the nail polish or solution being mixed.

14. The fingernail polish mixing system of claim 12 wherein the mixing cycle is controlled by an electronic timer circuit.

15. The fingernail polish mixing system of claim 14 wherein the mixing cycle is controlled by an electronic timer circuit which is capable of also reversing motor rotation during the mixing cycle.

16. The fingernail polish mixing system of claim 15 wherein an optional *battery eliminator* may be attached, allowing the mixing unit to be powered by common household power sources.

17. The fingernail polish mixing system of claim 16 wherein the batteries may be of the rechargeable type and the *battery eliminator* is also a *battery charger*.

18. The fingernail polish mixing system of claim 4 wherein the *work piece holding device* acts as a *counter dampener* to the vibration or gyration source.